G10E & G10EA

GSM ALARM SYSTEM

USER MANUAL

Ver 0801 2007-08-01

Dear users,

Thank you for purchasing our products. Please read through this manual before using this product so as to operate the product properly.

The GSM alarm system adopts the newest GSM network and Digital Signal Processing technology, and is widely used in security field. With SMS data transmission and voice platform of GSM network, it really realizes wireless alarm control and remote managements and solves the limitation of wired data transmission in telephone and wired network.

Perfect structure, convenient installation, easy operation with wireless control keyboard are designed for the idea of people-oriented, which will make you feel easy and comfortable while use this system.

"***People is center, technology is first***" is our company's action rule. Customer Satisfaction is our consistent pursuit. Perfect system, excellent services, sincere attitudes will bring you a new enjoyment.

Professional designer and manufacturer of GSM Alarm Systems
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1. Instruction

The alarm system adopts SMS data transmission and voice platform of GSM network to send control command and receive alarm remotely. The system can be set delayed-arm. When a signal is detected by detectors, the detectors will send alarm signal to host immediately, then the host sends alarm SMS to its pre-set mobile phone numbers, and meanwhile dials its pre-set telephone/mobile phone numbers automatically and drive wiretap. In addition, users can dial the system and set it in arm/disarm mode by any remote phones.
Following are the specific functions

1. GSM alarm transmission, without connecting telephone lines and be not afraid of cutting line.
2. Adapt wavecom double frequency GSM module.
3. 11 guarding zones
   1 wireless SOS alarm zone, 1 wireless fire alarm zone, 1 external power failure alarm zone, the other 6 wireless zones can be defined by user (Please note zone 05 and zone 06 can also be used **as hardwire zones**.)
4. Send SMS to 3 preset mobile phone numbers while alarming.
5. Auto-dial 3 preset phone numbers while alarming and monitor the alarm site.
6. The host automatically stores system status, while its power is off.
7. The system equips backup rechargeable battery .It can work while the external power is off.
8. Program the alarm host by wireless keyboard, SMS or remote phone.
9. Modify name of wireless zones and inquire the status of alarm host by SMS demand.
10. Report the guarding zones by SMS or voice
11. With voice reminder while the alarm host is working.
12. Support dialogue and remote arm/disarm
13. Can connect with the alarm center through GSM network.

Specification

a) GSM network frequency: 850/1900MHZ or 900/1800MHZ

b) External power failure alarm

Start-time: less than 1s

c) Alarm response time

Less than 10s (GSM in normality)

d) Power requirements: AC 220V 50Hz

Standby battery: DC8.4V

Standby battery working hours: more than 10 hours

e) Working conditions

Operating temperature: －20 to 60℃

Humidity: 20% to 95%

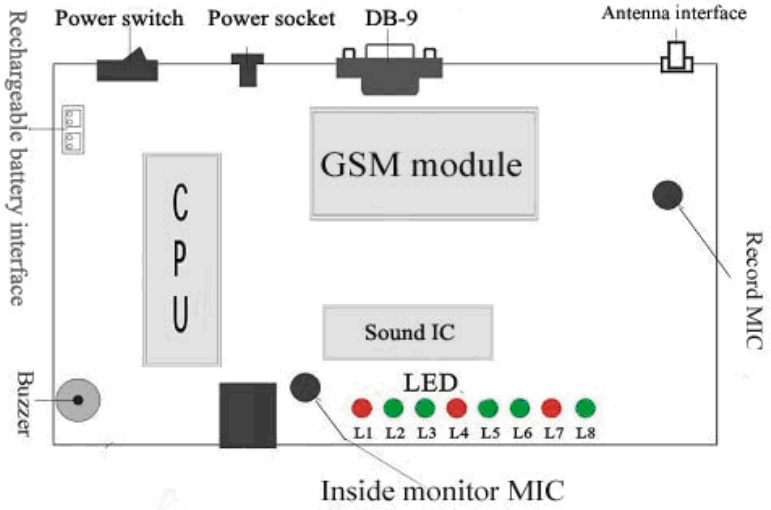
2. Installation

2.1 Host figure

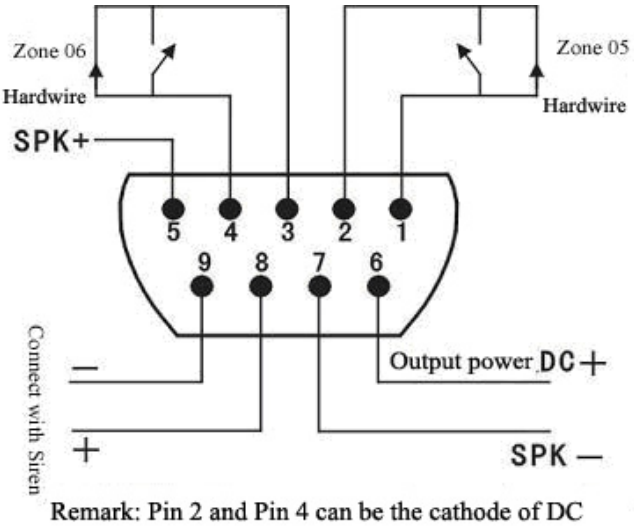
L1: Power switch
L2: DC 12V Socket
L3: DB-9 for Siren, hardwire zone and speaker interface
L4: GSM antenna
L5: Power External power LED
L6: Local Arm LED
L7: Remote Arm LED
L8: Alarm Alarm LED
L9: Run Host work LED
L10: Receive GSM communication LED
L11: Send GSM communication LED

L12: Wireless Wireless sensor work LED

2.2 Host's section figure



2.3 Connection of DB-9



Remark: Pin 2 and Pin 4 can be the cathode of DC

2.4 Insert a valid SIM into the host

Before installing the host, remove the SIM slot cover with a screwdriver and insert SIM card.

2.5 Run

Make sure that the power supply is connected correctly, and turn on the host power switch. the LOCAL LED, REMOTE LED, ALARM LED, RECEIVE LED and SEND LED are on, and then the host enters the status of initialization and searches GSM network about 25 seconds later, the host enters into the normal running status, alarm LED is off.

Note: During the host's running, if it makes "di,di,di,di" sounds or the RUN LED is on or off

all the time, this means something wrong with GSM!

3. Operation steps

3.1 Record alarm voice message

Remove of the host's SIM card cover with a screwdriver, press "REC" button, the host will make "di " sound, then it begins to 6 seconds record. It will make "di, di " sounds after finishing the recording. The host will make click sound and the speaker (Only ES model) will broadcast your recorded message automatically.

Note: Message should be brief. For example: "This is No. xx, building xx district xx. Please help, there is illegal intrusion in the house."

3.2 Set the host by wireless keyboard

Close all the wireless detectors and remove the SIM card cover. During the host's running, press "set" button, it will make click sound, at the meanwhile the ALARM LED is on. This means the host enters into the setting status. Then you can continue to set

Note: When setting through the keyboard, every time you press the button you will hear click sounds for confirmation, if there's no voice you can press the button again.

You can press the button "*" (before pressing the button "#") to cancel the numbers that you have already input.

3.2.1 Set mobile phone numbers for SMS alarm.

a. In setting status, operate the keyboard as below

Input: Serial number + mobile phone number + #

Example: set 13688888888 as the first SMS alarm phone number.

Input 113688888888#, then you will hear **"di, di "**sounds for confirmation.

Repeat the process to set the other two mobile phone numbers.

Note: serial number can only be 1,2,3 and the number "1" is the first SMS alarm phone number, the rest may be deduced by analogy.

Delete SMS alarm mobile phone numbers

Input: serial number + #, then can cancel the phone numbers.

Note: We suggest that you set the first SMS alarm mobile phone number because if you do not set the first one, you will be unable to know whether all of the contents of the setting is right or

not.

3.2.2 Set phone numbers for call alarm

In setting status, input: Serial number + phone number + #

Example: set 13688888888 as the first phone number for call alarm.

Input 413688888888#, then you will hear **"di, di "**sounds for confirmation.

Repeat the process to set the other two phone numbers.

Note: serial number can only be 4, 5, 6 and the number "4" is the first phone number for call alarm, the rest may be deduced by analogy.phone number can be telephone or mobile.

Delete phone numbers for alarm call

Input: serial number + #, then can cancel the phone numbers.

3.2.3 Change the password of the host

The factory default password is 1234. The password must be four digits.

In setting status, then input 7 + new password + # , you will hear click sounds for confirmation.

Example: set 6789 as new password

Input: 76789#.

3.2.4 Set new ID of the host

The factory default ID is 000000. The serial number must be six digits.

In setting status, then input 0 + six digits of new ID + #, the host will make a sound as "di, di" to confirm the input.

Example: set 123456 as new ID

Input: 0123456 #.

3.2.5 Set the host whether send "arm/disarm" SMS or not

When operate the host by remote controller, if you want to let host send "arm/disarm" SMS to mobile phone, please follow up the steps as below. In setting status, input "9 + # " on wireless keyboard, then you will hear "di, di " sound for confirmation.

Repeat the operation, you can cancel this function.

3.2.6 Choose open/closed alarm of hardwire zone contact

The factory default mode: when the hardwire zone contact is open, the host will alarm. If you want to change it, please follow us the step as below.

In setting status, input "8 + # "on the keyboard, then you will hear "di, di " sound for confirmation. The host will alarm when the hardwire contact is closed.

3.2.7 Exit setting status of the host

The host will exit the setting status automatically; so do not press the keyboard if the setting has been done. The Alarm LED on the host will be off 15 seconds later and then you will hear click sounds for confirmation. And it will send the setting message to the first SMS alarm mobile phone.

4. SMS Control Command

4.1 Set three SMS alarm mobile phone numbers

Input SMS: 4 digits password + DD + serial number + SMS alarm phone number

Example: The host's password is 1234; set 13888888888 as the first SMS alarm phone number.

Send SMS: 1234DD113888888888

Note: The serial number shows alarm sequence (must be 1, 2, 3)

4.2 Set three call alarm phone numbers

Input SMS: 4 digits password + DD + serial number + call alarm phone number

Example: The host's password is 1234; set 01088888888 as the first call alarm phone number.

Send SMS: 1234DD401088888888

Note: The serial number shows alarm sequence (must be 4, 5, 6)

4.3 Delete alarm phone numbers

Input SMS: 4 digits password + DD + serial number

Example: The host's password is 1234. If you want to delete the first alarm phone number,

Send SMS: 1234DD1

Note: The serial number shows alarm sequence (must be 1, 2, 3, 4, 5, 6)

4.4 Change host's password

Input SMS: 4 digits password + DD + 7 + the 4 digits new password

Example: The host's original password is 1234. If you want to set 5678 as new password

Send SMS: 1234DD75678

4.5 Arm/Disarm command

Arm by SMS: 4 digits password + A1

Disarm by SMS: 4 digits password + A2

Example: The host's password is 1234. If you want to set the host in arm mode,

Send SMS: 1234A1

4.6 Change Zone's name

Input SMS: 4 digits password + DM + zone's code (2 digits) +

Changed name

Return SMS: Changed zone's name.

Example: The host's password is 1234. If you want to change zone 06's name into Ourbedroom PIR Alarm.

Send SMS: 1234DM06 Ourbedroom PIR Alarm.

Note: Changed name should be less than 24 characters.

Zone's code in 2 digits: 01 to 06

4.7 Inquire host's arm/disarm status

Send SMS: 4 digits password + W1

Return SMS: The host's arm/disarm status

4.8 **Inquire host's external power status.**

Input SMS: 4 digits password + W2

Return SMS: host's external power status

5. Set the host by any phone

You can use any telephone/mobile phone to dial the phone number of the host, the host will automatically get connected after 15 seconds detecting and remind you of inputting password with voice. If the entered password is wrong for 3 times, the host will hand up the phone automatically; if the entering password is right, you will hear sounds, "Press one arm, press two disarm". Meanwhile, remote monitoring will run automatically. Press "*", you will hear " di, di"sounds from host to indicate it entered into setting Status, then you can continue the following steps

Note: Every time when you press the phone keyboard, the host will make click sounds. If not, this means your operation is unsuccessful, you should press it again.

You can press "*" to cancel the numbers which you have already inputted (before press "#").

(1). Set mobile phone numbers for SMS alarm

(2). Set mobile phone/telephone numbers for alarm call

(3). Change password of the host

(4). Set new ID of the host

(5). Set host whether send "arm/disarm" SMS or not

(6). Choose open/close alarm of hardwire zone contact

(7). Exit setting status of the host

The setting steps by phone are the same as by wireless keyboard. Please do as corresponding operation method by wireless keyboard.

6. Usage

6.1 Arm/disarmed by remote controller

a. Press the button "🔒" on the remote controller, the host makes **"di"** sound and the LOCAL LED and REMOTE LED are twinkling. 30 seconds later the host enters into arm mode and the LOCAL LED and REMOTE LED are on.

When the LOCAL LED and REMOTE LED are twinkling, you can press the button "⚡" to enter into arm status quickly.

b. Press the button "🔓" can disarm, the host make "di,di" sound, and LOCAL LED and REMOTE LED are off.

6.2 Emergency alarm

When an emergency alarm occurs, press the button "⚡" and the siren goes on intermittently for 90 seconds to inform the neighbors. At the same time, the system will automatically dial the pre-seted phone numbers cycled for three times and send the SMS of "Emergency alarm".

6.3 External power failure alarm

When the system checks out that there's something wrong with the external power or the external power is off for more than 2 seconds, it will enter into alarm status immediately. At the same time, the system will automatically dial the pre-seted phone numbers cycled for three times and send the SMS of "External power failed".

When the power supply is on, the system will stop alarming immediately and send the SMS of "External power OK".

6.4 Alarm and Handling

When an alarm occurs, the siren will alarm for 90 seconds to inform the neighbors. At the same time, the system will automatically send SMS to report the guarding zones and dial the pre-seted phone numbers. When any phone is answered, you can hear the voice message and monitor the sound at site. The user presses the button,

"1"----------the host armed

"2"----------the host disarmed

"3"----------inquire the alarm zone numbers

If the phone line is busy or can't put through, the system will auto-dial the next phone number circularly till the one of them is answered. If nobody answers the phone, the system will stop dialing after auto-dialing circularly for three times.

Note: When you are monitoring the voice at site, the host is still on the arm mode. If any detectors are triggered, the host will broadcast the zone numbers to you.

6.5 Remote arm/disarm and monitor

You can use any telephone/mobile phone to dial the phone number of the host, the host will automatically get connected after 15 seconds detecting and remind you of inputting password with voice. If the entered password is wrong for 3 times, the host will hand up the phone automatically; if the entering password is right, you will hear sounds: "Press one arm, press two disarm". Meanwhile, remote monitoring will run automatically. Then press following key,

"1"----------the host armed

"2"----------the host disarmed

"#"----------the host send the newest setting message

If the user hand up the phone, the host will automatically terminate the operation.

7. Operation Cautions

1. **Make sure the equipments have no water.**
2. **Install the system in a hidden place.**
3. **Turn off the power supply before insert/take out the SIM card.**
4. **Have a hard connection to the main power supply and provide good heat dissipation.**
5. **Don't install the system close to the objects which generate strong interference, such as TV set and computer.**
6. **Check all the detectors and their battery in time and change them when power is low.**
7. **Inspect the GSM alarm system termly**
8. **This product is designed for the indoor use rather than outdoor use.**

7. Wireless detector and Remote controller encode

<table>
<tr><th colspan="2">Name</th><td>Wireless address code of product (A0 to A7)
Note: You can see the code (A0-A7) from PCB in the products</td><th>D0
(13)</th><th>D1
(12)</th><th>D2
(11)</th><th>D3
(10)</th></tr>
<tr><td colspan="2">Host/Host</td><td>There is a label with wireless address code on the back of alarm host. It is corresponded to A0-A7 from right to left.</td><td>NC</td><td>NC</td><td>NC</td><td>NC</td></tr>
<tr><td colspan="2">Keypad</td><td rowspan="10">A0~A7: The same as the wireless address code of alarm host.</td><td>NC</td><td>NC</td><td>NC</td><td>NC</td></tr>
<tr><td rowspan="6">PIR sensor,
Magnetic contact,
Beam detector</td><td>Zone 01</td><td>0</td><td>1</td><td>0</td><td>1</td></tr>
<tr><td>Zone 02</td><td>1</td><td>1</td><td>0</td><td>1</td></tr>
<tr><td>Zone 03</td><td>0</td><td>0</td><td>1</td><td>1</td></tr>
<tr><td>Zone 04</td><td>1</td><td>0</td><td>1</td><td>1</td></tr>
<tr><td>Zone 05</td><td>0</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td>Zone 06</td><td>1</td><td>1</td><td>1</td><td>1</td></tr>
<tr><td colspan="2">Smoke detector</td><td>1</td><td>0</td><td>0</td><td>1</td></tr>
<tr><td colspan="2">Gas detector</td><td>1</td><td>0</td><td>0</td><td>1</td></tr>
<tr><td colspan="2">Emergency button</td><td>0</td><td>0</td><td>1</td><td>0</td></tr>
<tr><td colspan="7">Remark: “1”----------request High level (connect H with N)
“0”----------request Low level (connect L with N)
“2”----------NO connect
“NC”-------NO request</td></tr>
</table>

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